Environmental Liquid Membrane System®

Material Safety Data Sheet

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured by:	Green Products, LLC 221 E. Rocbaar Dr Romeoville, IL 60446	**Products name:**	Environmental Liquid Membrane System® (ELMS®) ELMS® 50, ELMS® 150, ELMS® Agriseal™, ELMS® Flashing Grade
Information contact:	815-407-0900	**Revision:**	11/22/04

SECTION 2: COMPOSITION- INFORMATION ON INGREDIENTS

Ingredient Name: Mineral Spirits-Rule 66 **CAS Number: 8052-41-3**

Trace Impurities:

	OSHA PEL		ACQIH TLV	
Ingredient	TWA	STEL	TWA	STEL
Mineral Spirits	None		5mg/m3	

See Section 8, Exposure Controls/ Personal Protection

SECTION 3: HAZARD IDENTIFICATION

Primary Routes of Exposure: Inhalation Eye Contact Skin Contact Ingestion

Effects of Over-exposure:

Skin:	Prolonged exposure may cause a skin sensitization in susceptible individuals.
Eyes:	May cause irritation or mechanical abrasion with prolonged exposure.
Ingestion:	Ingestion should be avoided.
Inhalation:	Exposure to high concentrations (>500 ppm) may cause respiratory irritation. Contact a physician immediately.

SECTION 4: FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes:	In case of contact, flush with copious amounts of low pressure water for at least 15 minutes. Call a physician IMMEDIATELY.
Skin:	Wash with mild soap and running water.
Inhalation:	Remove exposed individual to uncontaminated air. Administer rescue breathing (mouth to mouth) if breathing has stopped. If individual has stopped breathing and does not have a pulse, then administer cardio-pulmonary resuscitation (CPR).
Ingestion:	If swallowed, give 2 glasses of water to drink. IMMEDIATELY see a physician. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Product Data:

Fire Rating	Class A
Flash point (?F):	Over 360 degrees Fahrenheit
Flammability Limits in Air (% by Vol.):	Lower: Not established Upper: Not established
Auto-ignition Temperature:	Not established
Extinguishing Media for fires:	Carbon dioxide, dry powder, foam, water fog or mist. Water may be ineffective on flames, but should be used to keep fire exposed containers cool.
Special Fire Fighting Procedures:	Avoid use of water other than light fog or mist.
HMIS Rating:	Health: 1 Flammability: 1 Reactivity: 0

*HMIS: Minimal= 0, Slight= 1, Moderate= 2, Serious= 3, Severe= 4

Personal Protective Equipment: Fire fighters need self-contained respiratory equipment for fires in enclosed areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Procedure:

Contain, collect and reuse, if possible, all products. This product is not considered a hazardous product, and therefore is not considered a hazardous waste, but should be disposed of in accordance with all local, state, and federal environmental regulations and laws. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Personal Protection:

Respiratory Protection:	Approved NIOSH/MSHA (Organic Vapor) respirator may be necessary under certain conditions where airborne contaminants may exceed exposure limits.
Eye Protection:	Wear goggles or safety glasses with side shields at all times.
Other Protective Equipment:	Impervious gloves, long sleeve pants and shirts, and protective head wear should be worn to minimize exposure.

SECTION 7: HANDLING AND STORAGE

Storage Conditions:

The maximum recommended storage temperature for this product is 1200?F/490?C. Store in a well ventilated area.

Handling Procedures:

Warning- Static charges generated by mist or vapors in or near flammable vapors may cause a flash fire. Avoid ignition sources such as sparks and flame. Ground all equipment. Adequate ventilation should be provided to minimize vapor concentrations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Information:

TLV: Not established OSHA PEL: Not established LD80: Not established
Carcinogen or Potential Carcinogen: NTOP: not listed IARC: not listed OSHA: not listed

Respiratory Information:

A respiratory protection program meeting OSHA 29 CFR & 1910-134 and ANSI Z88. Two requirements must be followed whenever work place conditions warrant a respirator's use. None is required if airborne concentrations are maintained below the TLV/TWA's listed in the "Exposure Limit Information."

Eye Protection:

Use Chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Hand Protection:

NOTE: Material may be a skin sensitizer in susceptible individuals. The gloves listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection:

- Butyl Rubber
- Nitrile

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves after use. Wash hands with soap and water.

Other Protection:

Use a chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

Engineering Controls (Ventilation):

Use local exhaust ventilation with a minimum capture velocity of 150 ft./min. (0.75 m/sec.) at the point of dust or mist evolution. Refer to the current edition of *Industrial Ventilation: A Manual of Recommended Practice*, published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Other Protective Equipment:

Facilities storing or utilizing this product should be equipped with an eyewash facility and safety showers.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Thick viscosity fibrous material	Water Solubility	NA
Appearance/Odor:	White with mild aromatic odor	Freezing/Melting Point	Not applicable
Vapor Pressure:	15.6 mm Hg	Viscosity:	10,000-100,000 cps
Vapor Density:	(Air=1): 4.9	Evaporation Rate:	(Ether=1): <1
Specific Gravity:	(1120=1): 1.3		

SECTION 10: STABILITY AND REACTIVITY

Stability: This product is considered stable. Hazardous polymerization will not

	occur.
Conditions to Avoid:	Very high temperature and open flame.
Materials to Avoid:	Avoid mixing with strong oxidants.
Hazardous Decomposition Products:	Co2, fumes, dense smoke and aldehydes with incomplete combustion
Hazardous Polymerization Products:	None known
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, and smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Data:	None available
Sensitization Data:	None available
Biodegradation Data:	None available

SECTION 12: ECOLOGICAL INFORMATION

Environmental Toxicity: Environmentally benign

SECTION 13: DISPOSAL CONSIDERATIONS

Procedure:

Contain, collect and reuse, if possible all product. This product is not considered a hazardous product, and therefore is not considered a hazardous waste, but should be disposed of in accordance with all local, state and federal environmental regulations and laws. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

SECTION 14: TRANSPORT INFORMATION

Department of Transportation (DOT):	DOT Shipping Name:	Not listed
	DOT Hazard Class:	Not listed

SECTION 15: REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act (SARA Title 111):

SARA Title III requires planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) under 40 CFR & 355 (SARA 302,304,311, and 312).

TPQ:	Not applicable
RQ:	Not applicable

Section 312 and 313: This product contains no toxic chemicals subject to reporting requirements.

Comprehensive Environmental Response: Compensation And Liability Act (CERCLA)

Components present in this product meeting reporting requirements:

Substance:	CAS Number:	Concentration:	RQ:
None	None	None	None

SECTION 15: REGULATORY INFORMATION (continued)

OSHA Hazard Communication Standard:

This product is subject to inclusion in a Hazard Communication Program containing labeling requirements, Material Safety Data Sheets, and other types of warnings.

Toxic Substances Control Act (TSCA):

This product's constituents have been listed in the TSCA Chemical Substance Inventory.

Resource Conservation and Recovery Act:

Listed Hazardous Waste: No Characteristic Hazardous Waste: No

State Right to Know Acts (MA, NJ, PA):

Components subject to reporting are listed in Section 2, Ingredients and Hazards.

California, Proposition 65:

There are no known risks associated with this substance under conditions of normal use.

Clean Air Act, Ozone Depleting Chemicals:

This product contains no class I or class II Ozone depleting chemicals as defined in 40 CFR 82, Subpart E.

Canadian Environmental Protection Act (CEPA)

This product is listed in the Domestic Substance List.

Workplace Hazardous Materials Information Systems (WHMIS): This product is not a controlled substance as defined by the Canadian WHMIS system.

European Inventory of Existing Substances (EINICS):

This product is listed in the European Inventory of Existing Chemical Substances.

Australian Inventory of Chemical Substances (AICS):

This product is not listed in the Australian Inventory of Chemical Substances.

SECTION 16: OTHER INFORMATION

Abbreviations:	OSHA:	Occupational Safety and Health Administration
	TLV:	Threshold Limit Value
	TWA:	Time Weighted Average
	PEL:	Permissible Exposure Limit
	NTP:	National Toxicology Program
	IARC:	International Agency for Research on Cancer
	ANSI:	American National Standards Institute